

SOURCE LISTING

STMT LEV NT

```

1      0  EXER: PROC OPTIONS (MAIN);
      /*
      EXERCICE
      */
2      1  0  DCL AREA (120) DEC FLOAT (6); DCL N BIN FIXED (31) INIT (120);
4      1  0  GET EDIT (AREA) (R(FMT2));
5      1  0  PUT EDIT (AREA) (R(FMT1));
6      1  0  CALL RAN (AREA,N);
7      1  0  PUT EDIT (AREA) (R(FMT1));
8      1  0  FMT1: FORMAT (SKIP(4), 10 (SKIP, 12 F(6,3)));
9      1  0  FMT2: FORMAT (12 F(6,3) , SKIP);
10     1  0  STOP;
11     1  0  RAN: PROC (AREA,N);
12     2  0  DCL AREA (*) DEC FLOAT (6); DCL N BIN FIXED (31);
14     2  0  DCL SVN DEC FLOAT (6) INIT (7.0); DCL ONE DEC FLOAT (6) INIT (1.0);
16     2  0  M=N/2; L=6;
18     2  0  LP1: DO I=1 TO M;
19     2  1  S=SVN*AREA(I)+AREA(N+1-I-L);
20     2  1  DO K=1 TO 8; L=K; S=S-ONE; IF S < 0 THEN GO TO LP2; END;
25     2  1  LP2: AREA (I)=S+ONE; S=SVN*AREA(N+1-I)+ AREA(I+L);
27     2  1  DO K=1 TO 8; L=K; S=S-ONE; IF S < 0 THEN GO TO LP3; END;
32     2  1  LP3: AREA (N+1-I)=S+ONE;
33     2  1  END LP1; RETURN; END RAN;
36     1  0  END EXER;

```


0.291	0.924	0.582	0.749	0.914	0.976	0.722	0.537	0.708	0.417	0.016	0.727
0.878	0.758	0.091	0.048	0.630	0.005	0.497	0.758	0.529	0.367	0.898	0.090
0.315	0.798	0.179	0.630	0.849	0.324	0.656	0.075	0.884	0.083	0.579	0.786
0.349	0.014	0.121	0.600	0.836	0.137	0.030	0.316	0.965	0.366	0.133	0.311
0.332	0.777	0.895	0.704	0.710	0.286	0.196	0.524	0.210	0.664	0.531	0.312
0.068	0.831	0.818	0.587	0.764	0.361	0.994	0.630	0.147	0.143	0.595	0.003
0.194	0.559	0.436	0.677	0.712	0.791	0.005	0.135	0.407	0.462	0.963	0.760
0.764	0.207	0.072	0.557	0.090	0.873	0.271	0.335	0.593	0.507	0.675	0.659
0.846	0.392	0.921	0.433	0.323	0.036	0.071	0.538	0.699	0.064	0.232	0.967
0.601	0.956	0.103	0.893	0.489	0.555	0.622	0.107	0.370	0.297	0.909	0.267

0.592	0.575	0.030	0.798	0.291	0.321	0.021	0.726	0.188	0.457	0.079	0.412
0.217	0.227	0.708	0.874	0.802	0.427	0.802	0.227	0.549	0.244	0.159	0.223
0.295	0.676	0.343	0.967	0.150	0.340	0.664	0.987	0.395	0.043	0.813	0.964
0.234	0.775	0.283	0.877	0.529	0.671	0.922	0.807	0.898	0.709	0.074	0.807
0.471	0.582	0.029	0.922	0.331	0.833	0.036	0.736	0.134	0.312	0.753	0.220
0.623	0.964	0.147	0.421	0.660	0.191	0.168	0.941	0.693	0.532	0.689	0.725
0.253	0.245	0.384	0.443	0.117	0.853	0.351	0.256	0.814	0.070	0.862	0.156
0.485	0.049	0.290	0.499	0.514	0.897	0.781	0.131	0.035	0.398	0.800	0.243
0.720	0.400	0.245	0.829	0.440	0.150	0.994	0.133	0.523	0.496	0.153	0.527
0.212	0.570	0.479	0.342	0.301	0.643	0.112	0.627	0.007	0.787	0.071	0.618

DECL A(10);
DECL DY LABEL;

IF _____ THEN DY = FMT1;
ELSE DY = FMT2;

PUT EDIT (A (E) DA I=105)) (R (DY));

FMT1 : FFORMAT (SKIP, (N) F(6,3) , (12-N) F(6,3))
FMT2 : FFORMAT (SKIP, (12-N) F(6,3) , (N) F(6,3))